

In the specification:

Please replace the paragraph beginning at page 6, line 26, with the following paragraph:

A1
An equivalent circuit of the cross-section of an inner cooled coil is shown in FIG 8. With an AC voltage applied to the coil 30 between the copper strands 22 and the ground electrode, a portion of the AC voltage is coupled through the capacitance (C2) that exists between the top and bottom cooling tubes and the copper coil. This coupled voltage results in a large potential difference between the cooling tubes and the coil copper. The voltage drop across a capacitance (C1) is the voltage stress between the tube and copper strands (across the insulation). The magnitude of the voltage (VC2), depends on the relative values of the distributed capacitance (C1 and C2). The magnitude of potential (VC2) is equal to $V1(XC2/(XC2+XC3))$. The magnitude of the potential (VC2) can reach several hundred volts with coil rated voltage of V1. The insulation between the copper and vent tubes will fail if VC2 exceeds the dielectric strength of the insulation. Once voltage breakdown occurs, then it is possible to have the copper short to the vent tube.

In the claims:

Please amend claims 7-8 and 10-11 to recite the following:

- A2
SUB B2
7. (Amended) A high voltage stator coil for a stator of a power generation system, the stator comprising:
- a plurality of metal strands;
 - a plurality of vent members positioned adjacent the plurality of metal strands; and